

ABSTRACT

Disclosed herein is a hybrid type sensor for detecting high frequency partial discharge. The hybrid type sensor of the present invention can detect high frequency partial discharge at a high signal-to-noise ratio without being influenced by power noise and surrounding noise, and guarantee the safety of a test when breakdown occurs. The sensor of the present invention forms two or three signal paths with different impedances. A low frequency power signal is bypassed to ground through a first path, and a high frequency partial discharge current is allowed to flow through a second path and is detected as a resistance component through a resistor. Further, a surge voltage input to the sensor due to breakdown is input to the ground through a third path. Therefore, the present invention can precisely and safely detect the amount of high frequency partial discharge.